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(54) PHOTSENSITIVE PLANOGRAPHIC PRINTING MASTER PLATE AND PRODUCTION OF PLANOGRAPHIC PRINTING PLATE

(57)Abstract:

PROBLEM TO BE SOLVED: To increase the controllable range of a dampening water for a photosensitive planographic printing master plate having a photosensitive hydrophilic swellable layer on a substrate and to make the dampening water free from isopropanol(IPA) by incorporating an ethylenically unsatd. compd. having basic groups into the hydrophilic swellable layer.

SOLUTION: The hydrophilic swellable layer is photosensitive and contains an ethylene type unsatd. compd. having basic groups as a photosensitive compd. The ethylenically unsatd. compd. having basic groups consists of photopolymerizable monomers or oligomers having primary to quaternary amino groups, pyridine rings, piperidine rings, quaternary salts, etc. As for the ethylenically unsatd. compd., a vinyl monomer having at least one vinyl groups can be used. For example, dimethylamino methyl (meth)acrylate can be used. The ethylenically unsatd. compd. having basic groups is added to the compsn. for the hydrophilic swellable layer when the layer is formed, so that the ethylenically unsatd. compd. is present in the layer.

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